

Abstract:

A method for producing a tubular spring (12) in the form of a cylindrical hollow body, especially for pre-tensioning a piezoelectric actuator element (2) of an actuator unit (1) of a fuel injector comprises the step of providing a thin-walled, solid-drawn steel tube with a plurality of regularly arranged longish recesses (14) by means of laser cutting. Thus, an actuator unit (1) comprises a piezoelectric actuator element (2) which is arranged in a thin-walled cylindrical hollow body, wherein the hollow body being elastically embodied and pre-tensioning the actuator element (2). Furthermore, the hollow body is a solid-drawn steel tube which is provided with a plurality of longish recesses (14).